° [	ELECTRICAL SYMBOLS - DIAGRAM	ELECTRICAL SYMBOLS - POWER PLAN	COMMUNICATION SYMBOLS	ELECTRICAL SYMBOLS - LIGHTING PLAN	ELECTRICAL SHEET INDEX
	DELTA CONNECTION	MOTOR, SINGLE-PHASE	V OUTLET, COMBINATION TELEPHONE/DATA COMMUNICATION	-P- SWITCH, CEILING MOUNTED PULL	DWG SHEET CLIEFT TITLE
	MOTOR, SINGLE-PHASE	Ø MOTOR, THREE−PHASE		\$2 SWITCH BLANK = SINGLE POLE 2 = DOUBLE POLE	ORDER NUMBER SHEET TITLE
ه 👢	MOTOR, THREE—PHASE  WW  TRANSFORMER	T TRANSFORMER, PLAN	[25mm] CONDUIT	3 = THREE-WAY 4 = FOUR-WAY D = DIMMER K = KEY OPERATED	26 of 28 1254-E0 ELECTRICAL TITLE SHEET
foot	1 TRANSFORMER	WYE CONNECTION	F0	L = LOCK   P = WITH PILOT LIGHT $##-##(X) = LOW VOLTAGE SWITCH (X = # OF BUTTONS)$	27 of 28 1254-E1 ELECTRICAL BASEMENT PLANS
hes i	WYE CONNECTION  i EARTH GROUND	DUCT, CELL FLOOR HEADER	—— T—— TELEPHONE LINE = T —— I—— INTERCOM LINE = I. MINIMUM 3/4" [19mm] CONDUIT.	PB= PUSH BUTTON STATION RC= REMOTE CONTROL  T = TIMER OPERATED WP= WEATHER PROOF	28 of 28 1258-E2 ELECTRICAL PENTHOUSE PLANS
three inc	JUNCTION BOX	T T DUCT, TROLLEY	s SOUND LINE = S	X = EXPLOSION PROOF Mo= OCCUPANCY SENSOR	
	PB PULL BOX		NC NURSE CALL LINE = NC. MINIMUM 3/4" [19mm] CONDUIT.	CEILING MOUNTED OCCUPANCY SENSOR	
	O PRESSURE SWITCH-CLOSE ON INCREASE	DUCT, UNDERFLOOR JUNCTION BOX		SWITCH, LAMP HOLDER POLE	
			© TELECOMMUNICATIONS MANHOLE	LIGHT FIXTURE CEILING MOUNTED  LIGHT FIXTURE ID — REFER TO LT FIXT SCHEDULE	
	O PRESSURE SWITCH-OPEN ON INCREASE	<u>İ</u> EARTH GROUND	FLOOR RECEPTACLE, TELEPHONE  WIRELESS ACCESS POINT	(FIXT SCHEDULE OVERRIDES SYMBOL ABBREVIATION)  A — INDICATES LIGHT FIXTURE TYPE (X = EXISTING)	
o too		O JUNCTION BOX	OUTLET TELEPHONE; LETTER INDICATES AS FOLLOWS:	# — INDICATES CIRCUIT NUMBER b — INDICATES SWITCHING	
inch =	SWITCH, MULTIPOSITION	C C LADDER CABLE TRAY	J = JACK TYPE $W = WALL TYPE$		
o half	O SWITCH, NORMALLY CLOSED FLOAT	BRANCH CIRCUIT HOMERUN. LINES INDICATE NUMBER OF CIRCUITS, NEUTRAL, AND SWITCH LEG CONDUCTORS. ONE	$oldsymbol{ol}oldsymbol{oldsymbol{ol}ol{oldsymbol{ol}ol{oldsymbol{ol}oldsymbol{ol}ol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol{olby}}}}}}}}}}}}}}}}}}}}}}$	LIGHT FIXTURE CIRCUIT TYPE  - NO HATCH INDICATES OPITICAL CIRCUIT	
euo Dan d	SWITCH, NOTWINEET SESSED TEST	SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT SHOWN	A = AUDIO V = VIDEO I = INTERCOM	- ANGLED HATCH INDICATES CRITICAL CIRCUIT - SOLID HATCH INDICATES LIFE SAFETY CIRCUIT	
, <u> </u>	SWITCH, NORMALLY CLOSED FOOT OPERATED	PB PULL BOX	SPEAKER, CEILING MOUNTED, "X" INDICATES THE TYPE, PROVIDE SCHEDULE ON LEGEND		
~	SWITCH, NORMALLY CLOSED LIMIT	WWWWY	SPEAKER, WALL MOUNTED, "X" INDICATES THE TYPE, PROVIDE	TROFFER TYPE LIGHT FIXTURE, SIZE AS INDICATED  — CEILING MOUNT	
	SWITCH, NORMALLY CLOSED TEMPERATURE ACTIVATED		SCHEDULE ON LEGEND. MTD. 7'-6" [2286mm] AFF UNLESS OTHERWISE NOTED.	LIGHT TRACK WITH HEADS AS SHOWN	
	SWITCH, NORMALLY CLOSED TIME DELAY	——DB—— DIRECT BURIAL CABLE = DB	R- RADIO CHANNEL SELECTOR FACILITIES, MTD. 4'-6" [1372mm] AFF UNLESS OTHERWISE NOTED.	LIGHT TRACK WITH HEADS AS SHOWN  LIGHT FIXTURE, STRIP/INDUSTRIAL FLUORESCENT; LETTER	
	SWITCH, NORMALLY OPEN FLOAT	P POWER DUCT = P  SUBSTATION	SPEAKER PROGRAM SELECTOR SWITCH & VOLUME CONTROL	INDICATES TYPE.	
* o		HVS HI VOLTAGE SWITCH ON CONCRETE PAD	MTD. 4'-6" [1372mm] AFF UNLESS OTHERWISE NOTED.	OH LIGHT FIXTURE, WALL MOUNTED	
s one foot	SWITCH, NORMALLY OPEN LIMIT  SWITCH NORMALLY OPEN TEMPERATURE ACTIVATED	LVS LOW VOLTAGE SWITCH ON CONCRETE PAD	D- OUTLET, TELEVISION  BLANK = 4 11/16" [119mm] MASTER ANTENNA OUTLET BOX	LIGHTING, ONE HEAD EMERGENCY BATTERY POWER	
in ch	SWITCH, NORMALLY OPEN TEMPERATURE ACTIVATED	P T DUAL POWER AND TELECOMMUNICATIONS MANHOLE	W/BLANK COVER, MTD. 18" [457mm] AFF UNLESS OTHERWISE NOTED.	LIGHTING, TWO HEAD EMERGENCY BATTERY POWER	
5 <u> </u>	SWITCH, NORMALLY OPEN TIME DELAY	P POWER POLE	C = CAMERA (CCTV SYSTEM), MTD 18" [457mm] AFF M = MONITOR (CTTV SYSTEM).	LIGHTING, THREE HEAD EMERGENCY BATTERY POWER	
	-O-O- SWITCH, SINGLE BREAK	FLOOR OUTLET, DATA COMMUNICATION	NURSE'S CALL MASTER STATION MTD ON NURSE'S COUNTER TOP UNLESS OTHERWISE NOTED.	STREET LIGHT WITH BRACKET  LIGHT POLE, ONE MAST ARM, ONE LUMINAIRE	
	* NORMALLY ODEN, BELAY CONTACT	—D OUTLET, DATA COMMUNICATION	NURSE CALL TERMINAL CABINET.	LIGHT POLE, ONE MAST ARM, ONE LUMINAIRE  LIGHT POLE, TWO MAST ARMS, TWO LUMINAIRES	
8	NORMALLY OPEN RELAY CONTACT	PUSH BUTTON     PLOTEIR LITERAL BANGE	NURSE CALL STATION.	LIGHT POLE, POST TOP MOUNT LUMINAIRE	
	FUSE WITH RATING  MOLDED CASE CIRCUIT BREAKER	DISTRIBUTION PANEL  LIGHTING PANEL		•─□ LIGHT POLE, ONE LUMINAIRE	
en foot	LOW-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER	PANELBOARD CABINET, FLUSH MOUNTED	NURSE CALL STATION. 2 = DUPLICATE FACILITIES FOR TWO BEDS (SEPARATE	LIGHT POLE, TWO LUMINAIRES	
년 8		PANELBOARD CABINET, SURFACE MOUNTED	INDICATORS AT MASTER STATION) MTD 5'-0" [1524mm] AFF UNLESS OTHERWISE NOTED.	LIGHTING, EXTERIOR BUILDING	
- qusr		—C RECEPTACLE, CLOCK HANGER	D = DUTY STATION. MTD $5'-0"$ [1524mm] AFF UNLESS NOTED OTHERWISE.	EXTERIOR FLOOD LIGHT    M   EXIT SIGN, WALL MOUNTED WITH DIRECTIONAL ARROWS	
# #	SWITCH AND FUSE UNIT  SUITCH AND FUSE UNIT  FUSED DRAWOUT POTENTIAL TRANSFORMER	RECEPTACLE, DUPLEX — MOUNT 18" AFF, UNLESS NOTED OTHERWISE	E = MTD 6'-0" [1829mm] AFF FOR SHOWER LOCATION, MTD 4'-6" [1372mm] AFF FOR TUB LOCATION, & MTD 3'-0"	AND FACES AS SHOWN	
	R. RELAY	RECEPTACLE, DUPLEX ON EMERGENCY POWER — MOUNT 18" AFF, UNLESS NOTED OTHERWISE	[914mm] AFF FOR TOILET LOCATION. P = PSYCHIATRIC CORRIDOR STATION WITH KEY SWITCH	†⊗† EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN	
<b>→</b>	50 = INSTANTANEOUS OVERCURRENT OR RATE—OF—RISE   51 = AC—TIME OVERCURRENT	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER — MOUNT 18" AFF, UNLESS NOTED OTHERWISE	S = AUDIO VISUAL MALL STATION (STAFF) MTD 5'-0" [1524mm] AFF UNLESS OTHERWISE NOTED.	LIGHT FIXTURE, BOLLARD	
	67 = AC-DIRECTIONAL OVERCURRENT 86 LOCKING OUT	RECEPTACLE, QUADRAPLEX — MOUNT 18" AFF, UNLESS NOTED	U = UTILITY CALL STATION, MTD 5'-0" [1524mm] AFF UNLESS OTHERWISE NOTED.	LIGHT FIXTURE, DIRECTIONAL	
	DISCONNECT SWITCH, FUSED	OTHERWISE  RECEPTACLE, SINGLE — MOUNT 18" AFF, UNLESS NOTED OTHERWISE	NOTESE CONTENTION  2 = NURSE'S CALL DOME LIGHT (SUFFIX INDICATES NO OF	ELECTRONIC SAFETY AND SECURITY SYMBOLS	
one foot	DISCONNECT SWITCH, UNFUSED	→ RECEPTACLE, SINGLE WITH SWITCH — MOUNT 18" AFF, UNLESS	LAMP) MTD 6" [152mm] ABOVE DOOR.  D = CORRIDOR DOME LIGHT.  I = AUXILIARY INTERSECTIONAL DOME LIGHT.	FIRE ALARM STATION ( MANUAL ) NUMERALS	
e	FUSIBLE LINK  STARTER, COMBINATION WITH DISCONNECT SWITCH	NOTED OTHERWISE	TELEPHONE TERMINAL CABINET	FIRE ALARM STATION ( MANUAL ) NUMERALS DENOTE CODE MOUNTED 48" AFF TO CENTERLINE OF STATION.	
one—half	STARTER OR MOTOR CONTROLLER	RECEPTACLE, SPECIAL PURPOSE — MOUNT 18" AFF, UNLESS  NOTED OTHERWISE  A = 120V, 20A, 1 PHASE, 2—POLE, 3W, NEMA 5—20R.	MR TELEPHONE BACKBOARD (WALL MOUNTED)	FIRE ALARM AUDIO VISUAL DEVICE (WALL MOUNTED	
	TIME CLOCK	A = 120V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 5-20K. B = 208V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 6-20R. C = 120V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 5-30R.	REMOTE DICTATING OUTLET MTD 1'-6" [457mm] AFF. UNLESS	+7'-6" AFF UNLESS NOTED OTHERWISE)  B - BELL (SINGLE STROKE)	
	G GENERATOR, POWER	D = 208V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 6-30R. E = 208V, 60A, 1 PHASE, 3-POLE, 4W, NEMA 14-60R.	OTHERWISE NOTED.	CH — CHIME D — FLASHING DOME LIGHT	
	BATTERY	F = 208V, 30A, 3 PHASE, 3-POLE 4W, NEMA 15-30R. G = 208V, 50A, 3 PHASE, 3 POLE, 4W, NEMA 15-30R.	INTERCOM STATION (REFER TO SPECS. FOR FUNCTIONAL OPERATION OF INSTRUMENT & TYPE REQUIRED).	G — GONG 6" DIAMETER H — HORN	
<b>↓</b>	——————————————————————————————————————	H = 208V, 60A, 3 PHASE, 3 POLE, 4W, NEMA 15-60R.	INTERCOM STAFF STATION.	H/S — HORN/STROBE S — SPEAKER	
· • • • • • • • • • • • • • • • • • • •	STRESS CONE	⇒s RECEPTACLE, SWITCHED DUPLEX — MOUNT 18" AFF, UNLESS NOTED OTHERWISE		SA — SUMMONING ALARM  S/S — SPEAKER/STROBE	
	LIGHTNING ARRESTOR	DROP CORD, SINGLE CONVENIENCE OUTLET, 3—WIRE,		V — VIBRATING BELL  F P PHOTOELECTRIC TYPE SMOKE DETECTOR.	
hths inch	RECTIFIER, CATHODIC PROTECTION SANITARY	GROUNDING TYPE, 20A, W/#12 CONDUCTORS IN FLEXIBLE  CORD (CENTER LINE OF OUTLET: 6'-6" [1981mm] AFF.  MINIMUM).		FATC FIRE ALARM TERMINAL CABINET.	
three leight	M METER	MINIMUM).  ELECTRICAL STRIP MOLD (OUTLETS ON 2'-0" [610mm]  CENTERS OR AS DESIGNATED ON DRAWINGS), MTD 3'-6"		DOOD HOLD OD DOOD HOLD CONNECTION	
	A AMMETER	[1067mm] AFF OR AS INDICATED.		— DH	
	VOLTMETER VOLTMETER	3-GANG COMPARTMENT BOX IN FLOOR FOR TELEPHONE, DATA & RECEPTACLE.		CARD ACCESS READER; LETTER INDICATES AS FOLLOWS:  M=MOUNT	
	W WATTMETER	R RELAY; LETTER INDICATES RELAY TYPE  50 50 - INSTANTANEOUS OVERCURRENT OR RATE-OF-RISE		C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION	
<b>∞</b>	WH WATT-HOUR METER	50 = INSTANTANEOUS OVERCURRENT OR RATE-OF-RISE 51 = AC-TIME OVERCURRENT 67 = AC-DIRECTIONAL OVERCURRENT		P-PEDESTAL R-RACK S-SURFACE W-WALL  T=TECHNOLOGY/TYPE  R RAPCODE F FLEVATOR FLOOR CALL H FLEVATOR HAL	
<u></u>	ELECTRICAL SYMBOLS - PHASING	86 = LOCK OUT		B-BARCODE F-ELEVATOR FLOOR CALL H-ELEVATOR HAL CALL M-MAG STRIP P-PROXIMITY S-SMART CARD	
one foot	LINETYPE INDICATES EXISTING DEVICE TO REMAIN	DISCONNECT SWITCH, FUSED		T-TOKEN	
r in the line in t	——— LINETYPE INDICATES EXISTING DEVICE TO REMAIN  ———— LINETYPE INDICATES EXISTING DEVICE TO BE DEMOLISHED	DISCONNECT SWITCH, UNFUSED  STARTER, COMBINATION WITH DISCONNECT SWITCH		SECURITY ACCESS, PANIC ALARM	
o o duarie	LINETYPE INDICATES NEW DEVICE	STARTER, COMBINATION WITH DISCONNECT SWITCH			
ŏ <u> </u>		VARIABLE FREQUENCY DRIVE			100% CD 155UE
[		۷۱ ل			
			11	Descript Tills	FULLY SPRINKLERED
9	GENERAL CONTRACTOR AND/OR ALL S	SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE	I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota.	Drawing Title   Project Title   VA SPD HVAC IMPROVEN	MENTS 618-12-127 Office of
		PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE PROJECT ENGINEER.  DUNHA THE PRIOR APPROVAL OF THE PROJECT ENGINEER.	TRUE NORTH		Building Number Facilities
	GENERAL CONTRACTOR SHALL BE RES  CELLING & FLOORS. ANY AND ALL CU  RESPONSIBILITY. CORE DRILLING THRO	NIGH CONCRETE WALLS FLOORS OR STRUCTURE FOR PIRING OR CONDUIT SHALL RE THE US SOUTH SIXTH STREET?	Suite 1100	Approved: Cynthia Doolittle, Chief, Projects Section  [Location V.A. MFDICAL CFN]	Management Management
in 4	ADDENDUM #3 02/18/13 SUBCONTRACTOR, REMOVAL OF DEBRIS GENERAL CONTRACTOR, PATCHING AND	TOR BY TRADE; FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPECTIVE  S RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE  D REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE  WEB dunhameng.com	FAX 612.465.7551 AS NOTED	ONE VETERANS DE MINNEAPOLIS, MN	RIVE 55417
	ADDENDUM #1 02/05/13 EVISIONS DATE  GENERAL CONTRACTOR: TAICHING AND BY THE VARIOUS SUBCONTRACTORS.	ACCOMPLISHED LIBON COMPLETION OF THE INSTALLATION OF ANY AND ALL LITHLITES INSTALLED	rical consulting engineering  PLAN NORTH  Plot Scale 12" = 1'-0"	Approved: Steven Challeen, Director, Engineering    Date   08/13/2012   SW	Drawn CB  Dwg. 26 Of 28  Department of Veterans Affairs